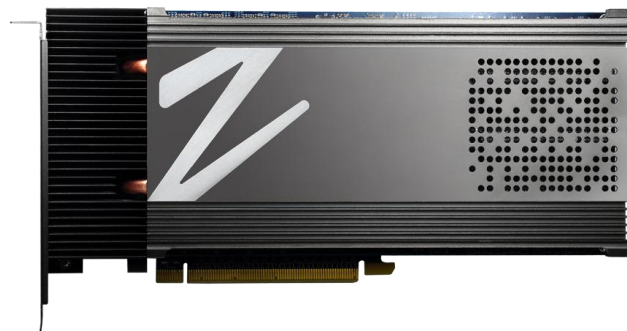




Z-Drive R4 CloudServ Storage Solutions



Up to 6 GB/s of Bandwidth and 1.4 million IOPS

- Delivers elevated levels of throughput and bandwidth, promoting the most efficient and productive cloud infrastructures

Proprietary Virtualized Controller Architecture™ (VCA) 2.0

- Multifaceted virtualization layer that interfaces with host system
- Enables TRIM, SCSI unmap, & SMART monitoring

SuperScale™ Storage Accelerator Unique to OCZ

- Facilitates scalable performance in datacenter applications
- Unique complex command queuing structure plus queue balancing algorithms
- Provides highly efficient performance aggregation while reducing the burden on host resources

Superior Reliability, Endurance, & Security Features

- DataWrite Assurance™ (in case of sudden power loss)
- Data fail recovery ensures superior reliability
- Intelligent block management for increased endurance
- Advanced security with 256-bit AES encryption support
- Strong error correction for enhanced data integrity

CloudServ™ RM1616 at a Glance

- Innovative storage system that enables game-changing performance for cloud computing applications
- Cost-effective MLC-based design with best-in-class endurance & reliability
- Advanced feature-set includes power loss data protection

KEY DIFFERENTIATORS:

- Highest performing and largest capacity enterprise PCIe solution on the market
- Merges the best features of pure hardware and software based approaches to data management and overcomes the inherent weaknesses of both
- Lowest host resource utilization in its class
- Bootable as a direct-attach device
- Ultra-high endurance for enterprise applications (increases drive life by up to five times the rated P/E cycles of the NAND)
- Only PCIe drive with complete power fail protection & drive-level recovery
- Maintains user-configurable flexibility not found in other enterprise storage devices



enterprise Z-Drive R4 RM1616 Series Specifications

PHYSICAL

Usable Capacities (IDEMA)	800GB, 1.6TB, 3.2TB, 6.4TB
NAND Components	Synchronous Mode Multi-Level Cell (MLC)
Interface	PCI Express Gen. 2 x16
Form Factor	PCIe full height, 3/4 length compliant
Storage Controller	OCZ SuperScale™ x 2
NAND Controller	SandForce® 2581 x 16
Dimensions (L x W x H)	230 x 98.40 x 36.95 mm (without bracket)
Weight	650g

PERFORMANCE

Read/Write Bandwidth	up to 6,000 MB/s
Random Read/Write Operations (4kB)	800,000 IOPS
Maximum IOPS	1,400,000 IOPS

ENVIRONMENTAL

Power Consumption	Idle: 50 W Active: 70 W
Operating Temperature	0°C ~ 70°C
Ambient Temperature	0°C ~ 55°C
Storage Temperature	-45°C ~ 85°C
Airflow Requirement	200 Linear Feet/Minute (LFM)
Certifications	RoHS, CE, FCC

RELIABILITY/ SECURITY

Data Fail Recovery	Recovers data from up to one NAND flash block per NAND controller
Power Fail Protection	DataWrite Assurance™ Technology (capacitance power back-up to ensure data hardening)
Data Path Protection	ECC: Up to 55 bits correctable per 512-byte sector; Data path parity protection
Data Reliability	Read Unrecoverable Bit Error Rate (UBER) 10e-17
Data Encryption	128-bit & 256-bit AES-compliant
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (SMART) Support w/ enterprise attributes

COMPATIBILITY

PCI Express	PCI Express x8 or x16 slot; Fully compliant with the PCI Express Electromechanical Specification Rev. 2.0, and PCI Express Base Specification Rev. 2.0
Operating Systems	Windows Server 2003 and 2008 R2 64-bit; Red Hat Enterprise Linux, CentOS, SUSE Linux Enterprise Server
Power Requirements	PCI Express 12V & 3.3V

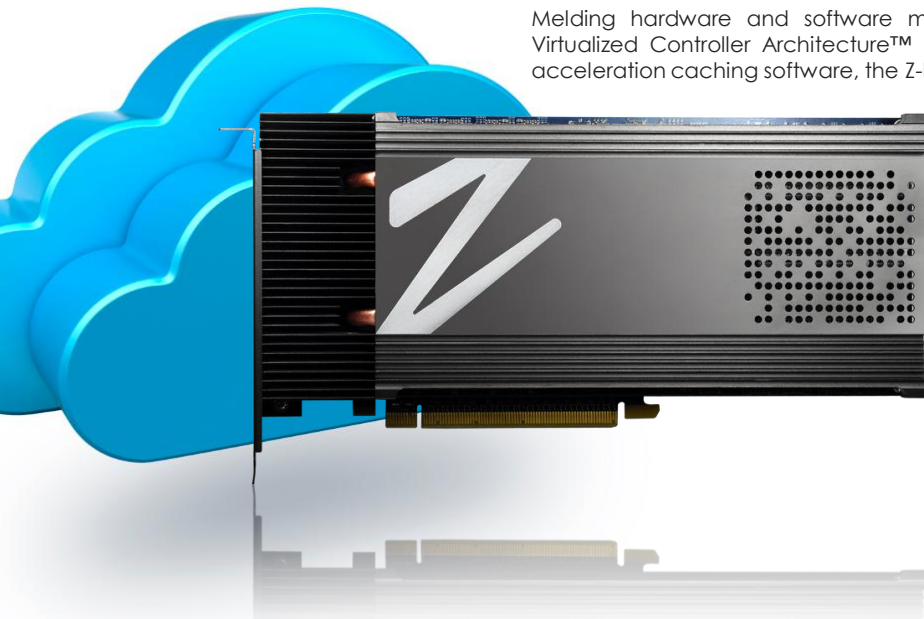
ADDITIONAL FEATURES

Flash Virtualization Layer	OCZ VCA (Virtualized Controller Architecture™) 2.0
Performance Optimization	TRIM/SCSI unmap (requires OS support)
Service & Support	3-Year Warranty; Dedicated FAE/FSE support (includes PM/engineer support through validation cycle)
Caching & Virtualization	Supports OCZ SANRAD VXL software



Dramatically Accelerating Cloud Computing Applications

Introducing the OCZ Z-Drive R4 CloudServ Series. With increasing emphasis on cloud computing and the sheer growth in data, PCIe-based flash storage systems have the ability to bypass traditional storage overhead by reducing latencies, increasing throughput, and enabling efficient processing of massive quantities of data. The Z-Drive R4 CloudServ is capable of transferring multiple gigabytes per second and delivering over a million IOPS with a level of concentrated performance that enables system architects to design more productive and less complex infrastructures while lowering costs associated with hardware failure, maintenance, structural footprint, and energy consumption.



Melding hardware and software managed solutions with OCZ's integrated Virtualized Controller Architecture™ (VCA) 2.0 and OCZ's SANRAD VXL virtual acceleration caching software, the Z-Drive R4 CloudServ can be employed as a

high-performing host-based flash cache that works in conjunction with the VXL to dynamically allocate flash resources to accelerate all virtual machines.

OCZ Z-Drives integrate seamlessly with servers at the system bus and kernel level, creating a new flash memory tier and dramatically increasing data throughput and cloud application performance all while slashing capital and operating costs.

It's time to simplify the cloud.

PRODUCT		CAPACITY			ORDERING	
NAME	FORM FACTOR	RAW	IDEMA	WRITE ENDURANCE	PART NUMBER	UPC
Z-Drive R4 RM1616	Full Height	1024GB	800GB	Up to 20PB	ZD4RM1616-FH-800G	842024030140
Z-Drive R4 RM1616	Full Height	2048GB	1600GB	Up to 40PB	ZD4RM1616-FH-1.6T	842024030133
Z-Drive R4 RM1616	Full Height	4096GB	3200GB	Up to 80PB	ZD4RM1616-FH-3.2T	842024030096
Z-Drive R4 RM1616	Full Height	8192GB	6400GB	Up to 160PB	ZD4RM1616-FH-6.4T	842024030126

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